## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | iD NO. | DATE      |
|---------------------------|----------|--------|-----------|
|                           | ual      | ,      | 127-10-01 |
| FEE DETERMINATION         | 44       |        | 9-18-01   |
| O.I.P.E. CLASSIFIER       | 1/       |        | 9-13-01   |
| FORMALITY REVIEW          | <u> </u> | 1112   | 8/21/01   |
| RESPONSE FORMALITY REVIEW |          |        |           |
|                           | ٠.       |        |           |

## INDEX OF CLAIMS

| _ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
|   | (Through numeral) Canceled |   | Appeal       |
|   | Restricted                 | 0 | Objected     |

| 14   |                                       | ور<br>پارهان |     |           | 1    |     | ٠,       | Ċ,      |          |          |        |    | 6           | ,        |           | . :      |           |                           |
|------|---------------------------------------|--------------|-----|-----------|------|-----|----------|---------|----------|----------|--------|----|-------------|----------|-----------|----------|-----------|---------------------------|
| ſ    | Cla                                   |              | Ī.  |           | ١, . |     | ,        |         |          |          | Dat    | е  |             |          |           |          |           |                           |
| ľ    |                                       | - 1          | 1   | 3         | 1    | 7   | Į        | 5       | *        | 3        |        |    | 1           |          | .:        |          |           |                           |
| Į.   | ᅙ                                     | Original     | Ŕ   | 2         | 7    | 3   | 0        | 5       | Trans.   |          |        | ١. | ١           |          |           |          |           | ١.                        |
| ľ    |                                       | ō            | Ľ   |           | 2    | 7   | <u>0</u> | 3       | -        | 7        | -      | Ŀ  | -           | -1       |           | <u> </u> | H         | -                         |
| L    |                                       |              | Į). |           | ¥    | 4   | ۱        | 4       | ¥        | 4        |        | H  | -1          | $\dashv$ |           | -        | -         | 10                        |
| ľ    | 7                                     | 10 9 X       | Н   | Н         | Н    | Н   | H        | μ       | ľ        | 4        |        | H  | 4           | -        |           | -        |           | ŀ                         |
| L    | 4                                     | 2            | H   | Н         | Н    | Н   | Ц        | ┝       | -        | 4        | -      | ┞  | 1           |          | -         |          | $\vdash$  |                           |
| ŀ    | 3                                     | 5            | H   | ÷         |      | Н   |          | H       | ,        | 7        | 3.5    | H  | ╗           |          | -         | -        | -         | 1.7                       |
| F    | ٠ <u>٠</u>                            | 6            | H   |           | ۲    | Н   | H        | H       |          | 7        |        |    |             | 70       |           |          | $\vdash$  |                           |
| t    | 2                                     | 7            | H   |           | r    | H   | ۲        | r       | Ī.       | 7        | •      | ŀ  |             |          |           | •        |           | ١.                        |
| ŀ    | ¥.                                    | ,8           |     |           |      | Ħ   |          | r       |          | 7        | 41     | Г  | ;           | ,        | ,         |          |           |                           |
| ľ    | T.                                    | <b>49</b>    |     |           |      |     |          | -       | ľ        | Ĺ        |        |    |             |          | * N       |          |           | 1                         |
|      | 'n.                                   | 10           |     | 1.5       | ı    |     |          | Ć       | Ŀ        |          |        | L  |             | ·        | Ŀ         | Ŀ        | L         |                           |
|      |                                       | 11           | L   |           |      | •   | L        | L       | L        | /        | *:     | Ŀ  | _           | -        |           | Ŀ        | ŀ         |                           |
|      | Æ.                                    | 12           |     | 1 - 6     | Ц    | Ö   | Ц        | 1       | Ŀ        | _        | 1      |    | <u>, ``</u> | 1.1      | L         | ^        |           | `                         |
|      | K.                                    | 13           | _   | Sec. 2    | Ц    | ۲   | H        | ž       | ŀ        | <u> </u> |        |    |             | 1 × 2    | 100       | 1        | 1         | 1                         |
| J    | 10                                    | 14           | Щ   | 3.        | -    | Ļ   | Ľ        | Ź       | 1        | 2        | 33 17  | ٠  | ;.`         | 55       |           | -,       | 7         |                           |
| 1    | -                                     | 16           | ł   | 14 200    | **   |     | ŀ        | 7       | ľ        | 2        | 17 3 5 | 1  |             | 1        |           | 1        | 54<br>54  | The state of the state of |
|      | <u>ζ</u>                              | 17           | 4   | 多数        | ,    | 1   | ľ        | L       | P        |          | 30     | k  | ۸.          | 197      | 彩         | .3       |           | 京 村に しなるまの思               |
| 1    | ares<br>CFF                           | 18           | H   | 8         | 1    | *   | H        | 100     | 1/       | 1        | 44     |    |             | 7,       |           | 47       | S         | 15                        |
| l    | 333                                   | 19           | H   | 1 440     | 1    | ٢   |          | ۲       | Ħ        | 3        | 4      | Ť, | Ž,          | 1        | -         | 1.0      |           |                           |
| l    | 3                                     | 20           |     | 1         | ľ    | t   | t        |         | ľ        |          | 17     | t  |             | 30       | -         | 15       | Υ.        | 1 .                       |
| ž    | # ?                                   | 21           | ۱   | 1         | i    | t   | H        | 2       | 1        | ŀ        | 34     | t  |             | gi i     | , ï.      |          |           | 107                       |
| ŝ    | 53                                    | 22           |     |           | ŀ    | ř   | ľ        | T       | ľ        | Ť        | est,   | 1  | ÷           | 2.5      | -         |          |           | 12                        |
|      | 31                                    | 23           | 3   | 7         | ŀ    |     | 1        | T       | T        | Ť        |        | T  | -           |          | 3.        |          | 100       |                           |
| i    | t.e                                   | 24           | ١   | 1         | Ī    | 8.  | I        | I       | ŀ        | Ι        |        | Ι  | -           | 11.5     |           | Ŀ        | Ŀ         |                           |
| ŝ    | Ŷ.                                    | 25           |     | L         |      |     | L        | L       |          | L        |        | ľ  | 4           | L        | 1         | L        | 4         |                           |
| 7    | Œ.                                    | 26           |     | ¥         |      | Γ   |          |         | 1        | ų.       | ř      | 1  |             | - 18     |           | Ŀ        |           |                           |
| 3    | Ť.                                    | 2            | 2   | i         | Ų    | V   | Į        | V       | ¥        | V        |        | 1  | •           |          | 1         | 1        | -         | -                         |
| ÷    | 絕然流                                   | 20           |     | 4         | ļ    | 4   | 1        | ÷<br>₹. | +        |          | Ŀ      | +  |             | Ļ        | -         | -        | 1         | -                         |
| V    | 200                                   | 3            |     | دود<br>ار |      | ·   | ł        | -       | 1        | 2        | -      | +  | :           |          |           | ╁        | +         | -                         |
| ŝ    | 79                                    | 3            | 1   | 7         | +    | 90  | ł        |         | +        | *        | +      | +  | -           | - 3      | 1         | -        | +         | 1                         |
| Š.   | e i<br>i o                            | 3            | _1  | -         | +    | 4.  | 1        |         | ł        |          | +      | †  | -           | t        | 1-        | +        | +         | 1.                        |
| Ì    | (32)<br>,2 ,                          | 3            |     | •         | †    |     | t        |         | †        | 7        | +      | †  | ٠٠.         | 1        | 1         | T        | +         | 1                         |
|      | 2                                     | 3            | _   | 1. "      | 1    |     | t        |         | †        | _        | T      | 1  |             | 1        | T         | T        |           |                           |
|      | 1                                     | 3            |     |           | 1    | _   | 1        |         | 1        |          |        |    | _           | Γ        | L         | Ι        |           |                           |
|      | 5                                     | 3            |     | ·         | Ī    |     | 1        |         | I        |          |        | I  |             |          | L         | Ļ        | L         | 1                         |
| 11.5 | 意味                                    | 3            |     |           | 1    |     | 1        | _       | 1        |          | L      | 4  |             | 1        | 1         | 1        | 1         | -                         |
|      | 3                                     | 3            |     | 7-        | 4    | •   | 1        | :       | 4        |          | -      | 4  |             | $\perp$  | ╄         | +        | +         | 1                         |
|      | 1                                     | 3            |     | ٠.        | ŀ    | _   | 1        |         | 4        | _        | +      | 4  |             | +        | +         | +        | +         | +                         |
| 1    | -                                     | 4            |     |           | Ì    | _   | 4        |         | 1        | -        | ╀      | 4  | _           | +        | 1         | +        | +         | +                         |
|      |                                       | 4            |     | L         | 1    |     | 4        | _       | 4        |          | 4      | 4  | •           | +        | +         | +        | +         | +                         |
|      |                                       | 4            |     | H         | 4    | _   | 4        | _       | ٠,       | <u>.</u> | +      | 4  |             | +        | +         | +        | ╁         | +                         |
|      | 1000000000000000000000000000000000000 | +            | 4   | H         | 4    | _   | 4        | -       | $\dashv$ | -        | ╁      | -  | _           | +        | +         | +        | +         | $\dashv$                  |
|      | $\vdash$                              | 12           | 5   | $\vdash$  | 4    | _   | -        | ۲       | $\dashv$ | _        | ╁      | -  | -           | +        | +         | 十        | +         | $\dashv$                  |
| ,    | -                                     | 4            | 8   | 100       |      | . 1 | ۲        | ۲       |          | _        | +      | +  | $\vdash$    | +        | $\dagger$ | +        | $\dagger$ | 1                         |
| t.   | 1                                     | 14           | 7   | Ι.        | , '  |     | -        | H       |          | _        | +      | -  | H           | 1        | T         | 十        | +         | 1                         |
| 1    | r                                     | 4            | 8   | 1         |      | Γ   |          | -       |          | Ī        | T      | _  | Γ           | T        | 丁         | 1        | T         |                           |
| ,    | T                                     |              | 9   | Γ         | Ī    | Г   | _        |         |          |          |        |    |             | 1        | I         | I        | Ι         |                           |
| 7    | Г                                     | 16           | 'n  | 1         | _    | г   |          | T       | Т        | Г        | Т      | _  | Г           | Т        | Т         |          | Т         | 1                         |

| ſ  | Cla           | im       |          |          |              |              | Dat               | е -      |          |          |          |     |
|--|---------------|----------|----------|----------|--------------|--------------|-------------------|----------|----------|----------|----------|-----|
| ŀ  | Ť             |          | -1       | I        | -            |              | $\neg$            |          |          |          |          |     |
| Ì  | Final         | Original |          |          |              |              |                   |          |          |          |          |     |
| ŀ  | -             | 51       |          |          | $\dashv$     | ÷            | -                 |          | $\dashv$ | -        | $\neg$   | -   |
| 1  |               | 52       |          | $\dashv$ |              | $\dashv$     | ÷                 | -        | 一        |          | -1       |     |
| ١  | - 1           | 53       |          | -        | -            | $\vdash$     | -                 | 13       | -        | ᅱ        | 1        |     |
| ł  |               | 54       |          | -        | -            | $\dashv$     |                   |          |          | -        | e .      |     |
| 1  |               | 55       | $\dashv$ | -        | -            | : 1          |                   |          |          | $\neg$   |          | *   |
| - 1  | -             | 56       |          | -        | -            |              | 1.                |          | -        |          |          |     |
|  |               | 57       | _        | -        |              | -            |                   |          |          |          |          |     |
| ŀ  | $\overline{}$ | 58       |          | 7        | ٠,           |              |                   |          |          | -        |          |     |
|  | _             | 59       | -        |          | Ť            |              |                   |          |          | -        |          |     |
| ١  |               | 60       |          |          | $\neg$       |              |                   | ٠,       |          | -        | - (      |     |
|  |               | 61       | 1        |          |              |              |                   |          |          |          |          | •   |
|  |               | 62       | a.       | 1.0      |              | ٠            |                   |          | 1.       | . 1      | •        |     |
|  | 1.56          | 63       |          |          | -            |              | . 1               |          |          |          | ¥.       |     |
|  |               | 64       | 2        |          | *5           |              | 2.2               |          | \$ * c   | 27       | ,        | 4   |
|  |               | 65       | j,       |          | . 62         |              | •                 | 31.      | 3        | 1        |          | p   |
| *  | 24            | 66       |          | X.       | 1            | 14           |                   |          | 32.      | 127      | 4        | ,4  |
| こうでは、大きないのでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ | 15            | 67       | · C.473  | W.       | - 20         | igi.         | $\mathcal{G}_{i}$ | e de     | 33,      | ci.)     | 4        | *** |
| ,  | 3.25          | 68       | -        | 18.4     | 100          |              | 3/1               | 3.2      |          | 3        | 14       | 1   |
|  | χ             | 69       |          | **       | 2            | , M          | 4.                | Ŋ.       | ١,       | 2's      | * C.     | 1   |
| 3  | 3             | 70       |          | *        | 4            | *            | 3                 | 3        | ٤.;      |          |          |     |
|  | 1             | 71       |          | 7        | 14           | 1            | 7.5               | 33       | 70       |          | ***      | 30  |
| Ĺ,   |               | 72       |          | . *      | 77           | (6)          | 7                 | *37.     | 4,4      |          | 1        |     |
|  |               | 73       |          | 150      |              |              | ۲,                |          | 0        | 5        |          |     |
|  | 7             | 74       |          | 4        | L            | Ŀ            | Ŀ                 | Ŀ        | _        |          |          | ·   |
| -  | Ŀ             | 75       |          | _        | Ŀ            | Ŀ            |                   | _        | <u> </u> | Ŀ        | L        | L   |
| ne.  | - 1           | _        | 3        | 4.       |              |              | L                 | -        | L        | ├-       | ┡        | -   |
| and .  | 1             | 77       | Ľ        |          | L            |              | -                 | _        | 1        | ᆫ        | -        | L   |
|  | نا            | 78       | Ŀ        | ij.      | ⊢            | ↓_           | -                 |          | _        | L        | ŀ-       | ┞   |
| ÷  | Ŀ             | 79       | <u> </u> | -        | 1.0          | -            | :                 | -        | ļ.,      | -        | -        | 1   |
|  | :             | 80       | -        | 1        | ├-           |              | <del> -</del> -   | $\vdash$ | -        | -        | -        | -   |
|  | H             | 81       |          | 1        | -            | +            | +                 | ╁        | ╀─       | ┢        | $\vdash$ | ┝   |
|  | -             | 82       | _        |          | ⊢            | ╁            | -                 | +        | +        | t        | ╁╌       | +   |
| ٠.   | -             | 84       | ÷        | +        | ╁            | -            | +                 | +        | +        | +        | +        | +   |
|  | $\vdash$      | 85       | _        | 1        | t            | ╁            | $\vdash$          | 1        | †-       | +-       | $t^{-}$  | 1   |
|  | Н             | 86       |          | +        | 1            | t            | t                 | $t^{-}$  | $\vdash$ | $\vdash$ | 1        | T   |
| *  | H             | 87       | ÷        | t        | 十            | T            | t                 | T        | T        | T        | 1        | Τ   |
|  | 一             | 88       | _        | 1        | T            | T            | 1                 | 1        |          | Τ        | T        | Ι   |
|  |               | 89       | 1        | T        | 1            | Τ            | T                 | T        |          | Γ        | Ι        |     |
|  |               | 90       | 1        |          | Τ            | Τ            | T                 | Т        | T        |          |          | Ĺ   |
|  | $\vdash$      | 91       | T        | T        | Τ            | $\top$       | T                 | T        | Τ        | Τ        |          |     |
|  | T             | 92       |          | T        | $\top$       | T            | $\top$            | T        | Ι        | Ι        | Ι        | I   |
|  |               | 93       | 1        | $\top$   | 1            | T            | T                 |          | I        | Ι        |          | L   |
|  | Г             | 94       | 4        | $\top$   | Τ            | Τ            | T                 | L        | L        | I        |          | L   |
|  | T             | 95       | _        | Ī        | Ι            | Ι            |                   | I        |          | I        | L        | L   |
|  |               | 96       | 3        | Ι        | Ι            | Ι            | Ι                 | I        | Ţ        |          | 1        | 1   |
|  |               | 97       | _        | Ι        | $oxed{\Box}$ | $\perp$      | L                 | L        | $\perp$  | L        | 1        | 1   |
|  | Г             | 98       | 3        | I        | Ι            | $\mathbf{I}$ |                   | $\perp$  | ┸        | 1        | 1        | 1   |

| _    |          |            |            |           | •        |         | ورت و      | 15             | Terral       | 260  | y it a     | - 2.5<br>- 2.5 |
|------|----------|------------|------------|-----------|----------|---------|------------|----------------|--------------|------|------------|----------------|
| Ļ    | Cta      | im         | -          |           | _        | · ·     | Dat        | θ.             |              | - 4  | etc J      | ٦              |
| I    | ıaı      | Original   |            |           |          |         |            | ·              |              | 養養   | 子の         |                |
| l    | Final    | -          |            |           | 1        | Ç       | 4:         |                | 1            | 1,41 | \$         | 3              |
| ļ    | _        | 101        |            |           |          | 8       | 1.         | 7              | ž            | 4    | £7         | 3              |
| ŀ    |          | 102        | _          |           | 1        |         |            | 7              | 14           |      | -          |                |
| ŀ    |          | 103<br>104 | Н          | _         |          | _       | -          |                | -            | -    | -          | $\dashv$       |
| ŀ    | . :      | 105        | - 1        | 13        |          |         | 1          | Ç.F            | 127          | 140  | - 24       | -              |
| ł    |          | 106        | Н          | 1         | •        | 33.2    | 15         | 1.1            | 1. 1         | 7    |            |                |
| Ì    |          | 107        |            | 1         |          | 37      | ×.,        | ٦.             | i i          | 4)   |            |                |
| I    | ٠,,      | 108        |            |           | 3.7      |         | ; Š        | 77             | 3.5          | 4    | 43         |                |
| Į    |          | 109        |            |           |          | 1       |            | *              | 3            | 2.00 | **         |                |
| -    |          | 110        |            | ;         |          | ÿi.     |            |                | 160          | 4,7  | -          | 2              |
|      | •        | 111<br>112 | . 9        | . 13      | _        | +       | **         | . J.           | 300          | 1.   |            | 1              |
| 1    | 7        | 113        | -          | dance     | (i)      | 44      | . S.       | 35             | 1            | 14.  | ¥          | 4.7            |
|      | in. 1    | 114        | -          | ·Ų        | 10.2     | ,       | 1          | 1              | 1            | W.   |            | Ţ,             |
| 1    | 1        | 115        |            | 7         | 42       | 34      | 13,        |                | Š            | ***  | £          | 3              |
|      |          | 116        |            |           | Š.       | -22     | 1          | 1              | 1            | -3   |            | 少              |
| ,    | 1        | 117        |            | 鸋         | *8       | 100     | 9.5        | 100            | No.          | 變    | <b>5</b> 5 | 44             |
| 1    | 14       | 118        |            | 1.        | 18,1     | 100     | 737<br>737 | 100            | 1889<br>1982 |      | 1          | 13             |
|      | 1.       | 119        | 162        | (S)       | 1        | 1       | 1.         | 32 T           | 等            | 123  | ٠.<br>نارو | *              |
|      |          | 120        | 40         | .7        |          | 7       | 1          | 3.7            | 20           | 4    | gri<br>di- |                |
| 4.74 | 1        | 121        | -          | 14<br>18% | 読        | 凝       | 20         |                | 100          | 14   | 44         | 10,            |
| *    | •        | 123        |            |           | 1/4      | - 9     | :4         |                | 1            |      | 2.0        | . 1            |
|      |          | 124        | _          |           |          | 33      | 7,6        | v              | 7            | 9    |            |                |
| j    |          | 125        |            | Ŀ         | 7.       | 15.5    | £.         | 37             | · .          | 3    | .:         | L              |
| •    | -        | 126        | ,iii       | 10        | 1,7      | 1       | 3          | <i>₹</i>       | <i>i</i>     | ii.  | 3.1        |                |
| 1    | -        | 127        | -          | ٤,        | 1-1      | -       |            | A <sub>O</sub> | en.          | net. | 975        | ++             |
|      | H        | 129        | -          | 1         | 2        | 20      |            |                | 7 :<br>(0)   | 32   | -          | ۲.             |
| ř    | Ŀ        | 130        | +          | 1         | -        | -       | _          | 5              | 3            | 33.  | $\vdash$   |                |
|      |          | 13         | -          |           | <u> </u> |         | 1          | 3.5            |              | 3    | ŗ          |                |
|      | _        | 132        | -          |           | -        |         | Α.         |                |              | L    | L          | Ŀ              |
|      |          | 13         | -          | L         |          | L       |            | L.             | _            |      | ┡          | Ŀ              |
|      | _        | 13         | -          | ├-        | -        | 1       | ┰          |                | -            | -    | ╀          | -              |
|      | ┝        | 13         | -          | ╀         | +        | ╀       | ╁╴         | +              | -            | Η.   | 1          | ┪              |
|      | $\vdash$ | 13         | 4-         | ╁         | +        | ╁       | ╁          | t              |              | -    |            |                |
|      | $\vdash$ | 130        | +-         | T         | T        |         |            |                | i,e          | ×.   |            | 14             |
|      |          | 13         | 9          |           |          |         | L          | L              |              | L    | _          | Ļ              |
|      | Г        | 14         | 0          | L         | Ŀ        | L       | L          | ┺              | L            | L    | L          |                |
|      |          | 14         | _          | 1         | Ļ        | 1       | 1          | $\vdash$       | با           | 1    | Ľ          | H              |
|      | L        | 14         |            | +-        | ╀        | +       | +-         | -              |              | _    | +          | 3              |
|      | -        | 14         | 4          | ╀         | +        | +       | +          | +              | +            | ۲    |            | †              |
|      | $\vdash$ | 14         |            | ╁         | +-       | 十       | +          | <del>ŀ</del>   | 1.           | +    | t          | I              |
|      | -        | 14         | —          | 十         | 1        | T       | 1          |                |              | 1    | -          | -              |
|      | 1        | 14         | -          | †         |          | 1       | 1          |                | E            | 0    | 1          | Ŀ              |
|      |          | 14         | 8          | E         |          | •       | 77.        | 100            | _            | 4-   | +          | -              |
|      | E        | 14         |            | Ţ         | 4        | $\perp$ | +          | +              | +            | +    | +          | +              |
|      | L        | 15         | <u>q</u> _ | 1         |          | 上       | ٠.         |                | با           | 1    |            | -              |
|      |          |            |            |           |          |         |            |                |              | 1    |            | -              |

If mor than 150 claims or 10 actions staple additional sheet here

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12/8/26